

FILLIPOV, G.B.; SMIRNOV, A.N.

Emulsifying hemp fiber in bales. Tekst. prom. 18 no.9:54-57
S '58. (MIRA 11:10)

1. Glavnyy inzhener leningradskoy fabriki "Neva" (for Fillipov).
2. Glavnyy mekhanik leningradskoy fabriki "Neva" (for Smirnov).
(Hemp)

F. L. Lipov, K. V.

112-4-7665D

Translation from: Referativnyy Zhurnal, Elektrotehnika, 1957, Nr 4,
p. 19 (USSR)

AUTHOR: Fillipov, K. V.

TITLE: Research on Optical Anisotropy in Transparent Electrets
(Issledovaniye opticheskoy anizotropii prozrachnykh elektretov)

ABSTRACT: Bibliographic entry on the author's dissertation for the
degree of Candidate in Physics and Mathematics presented
to the Moscow Mining Pedagogical Institute (Mosk. gor.
ped. in-t), Moscow, 1956.

ASSOCIATION: Moscow Mining Pedagogical Institute (Mosk. gor. ped. in-t)

Card 1/1

FILLIPOV, L.P.; SIMONOVA, Yu.N.

Measuring the heat conductivity of metals at high temperatures.

Part 1. Measurement of small differences of high temperatures.

Teplofiz. vys. temp. 2 no.1:3-8 Ja-F '64.

(MIRA 17:3)

1. Moskovskiy gosudarstvennyy universitet.

PELLETOV, M.P.; RUCHIKOVA, N.I.

Quantitative determination of 3,4-benzopyrene by fluorescence spectroscopy at low temperatures. Zav.lab. 31 no.3:293-294 '65.
(MIRA 18:12)

1. Severodonetskiy filial Gosudarstvennogo Instituta azotnoy promyshlennosti i osnovnogo organicheskogo sinteza.

FILLIPOV, N.A., kand.sel'skokhoz.nauk

Weevils of the genus Baris. Zashch. rast. ot vred. i bol. 8 no.12:
36-37 D '63. (MIRA 17:3)

1. Moldavskiy institut oroshayemogo zemledeliya i ovoshchavodstva,
Tiraspol'.

BORNATSKIY, Ivan Ivanovich; FILLIPOV, S.I., prof., doktor tekhn. nauk,
red.; ZINGER, S.L., red. izd-va; KARASEV, A.I., tekhn. red.

[Physical chemistry of the basic open-hearth process] Fizicheskaya
khimiya osnovnogo martenovskogo protsesssa. Moskva, Gos. nauchno-
tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1961. 292 p.
(MIRA 14:6)

(Open-hearth process)

FILLIPOV, M.

Resistance and expansion of a suspended magnetite layer in a magnetic field [with summaries in English and German]. Vestis Latv ak no.12: 47-51 '61.

1. Akademiya nauk Latviyskoy SSR, Institut fiziki

L 11070-63

ACCESSION NR: AP3001373

ENP(q)/EWT(m)/BDS--AFFTC/ASD--JD

9/0148/63/000/005/0010/0018

AUTHOR: Pronin, L. A.; Fillipov, S. I.

TITLE: State of molten metal on the basis of acoustical data

SOURCE: IVUZ. Zhurn. metalurgiya, no. 5, 1963, 10-18

TOPIC TAGS: molten metals, low-fusion metals, lead, bismuth, tin, cadmium, ultrasonics, coefficient of isothermic compressibility, volume expansion, Yering-Hirshfelder equations, Fraenkel equations

ABSTRACT: The Yering-Hirshfelder equations of state for molten metals were evaluated experimentally using four liquid low-fusion metals: lead, bismuth, tin, and cadmium. The following determinations were made: change in rate of ultrasonics (ranging from 1400 to 2400 m/sec.) as a function of temperature (500 to 1200 degrees); change in coefficient of isothermic compressibility as a function of temperature (500 to 1200 degrees) was calculated; change in coefficient of volume expansion as a function of temperature (500 to 1200 degrees) was calculated; values $V_{sub 0}$ for the equations of Yering-Hirshfelder and Fraenkel were computed and are tabulated; free volume decreased as a function of temperature, thus eliminating this value from consideration. Authors concluded that the acoustical measurements and Fraenkel's corrected equation make it possible to determine quantitatively important

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L 11070-63

ACCESSION NR: AP3001373

characteristics of molten metals. Orig. art. has: 30 equations and 6 figures.

ASSOCIATION: Moskovskiy institut stali i splavov (Moscow Institute of Steel and Alloys)

SUBMITTED: 18Feb63

DATE ACQD: 01Jul63

ENCL: 22

SUB CODE: 00

NO REF SOV: 009

OTHER: 005

cs/ch
Card 2/2

MALINOVSKIY, V. A., prof., doktor tekhn. nauk; FILIPOV, V. A., inzh.

Testing a laboratory roll-vibration granulator for processing
flotation concentrates. Obog. i brik. ogl. no. 26:3-14 '62.
(MIRA 17:8)

FILLIPOV, V. V., Doc Biol Sci -- (diss) "Role of biotin and pantho-
tenic acid in physiological processes of higher plants." Moscow, 1960.
24 pp; (Inst of Plant Physiology im K. A. Timiryazev, Academy of Sci-
ences USSR); number of copies not given; price not given; list of author's
work at end of text (16 entries); (KL, 24-60, 130)

filipova, A.
KUZNETSOV, Georgiy Nikolayevich; BUD'KO, Mariya Nikolayevna; ...
FILIPOVA, Antonina Aleksandrovna; SHKLYARSKIY, Mechislav
Feliksovich; AVERSHIN, S.G., otv.red.; LOMILINA, L.N.,
tekhn.red.

[Studying manifestations of rock pressure by means of models]
Issuchenie proiavlennii gornogo davleniia na modeliakh. Moskva,
Ugletekhizdat, 1959. 282 p. (MIRA 12:8)
(Geological modeling)
(Subsidence (Earth movements))

KORAVAYEV, Ivan Ivanovich; GORSKAYA, Nina Fedorovna; FILLIPOVA, L.S.,
red.; BRAYLOVSKIY, N.G., red.

[Mechanized treatment of tank cars in washing and steaming
stations] Mekhanizirovannaya obrabotka tsistern na promyshlennno-
propischnykh stantsiyakh. Moskva, Izd-vo "Transport," 1964.
26 p. (MIRA 17:8)

FILLIPOVA, M.P., kand.tekhn.nauk

Work of the Central Committee for the Control of Silicosis.

Nauch. soob. IGD 21:195-205 '63.

(MIRA 17:2)

FILLIPOVA, N. A.

"An Approach to the Age and Species Identification of Nymphs of
Certain Ornithodoros Ticks."

Tenth Conference on Parasitological Problems and Diseases with Natural
Reservoirs, 22-29 October 1959, Vol. II, Publishing House of Academy of
Sciences, USSR, Moscow-Leningrad, 1959.

Zoological Institute, USSR Academy of Sciences (Leningrad)

FILLIPPOVA, A.A. (Moscow)

Mises' theorem on the asymptotic behavior of functionals of
empirical distribution functions and its statistical applications.
Teor.veroiat.i ee prim. 7 no.1:26-60 '62. (MIRA 15:3)
(Distribution(Probability theory))(Mathematical statistics)

FILLIPOVICH, B.A.

Surgical therapy for epiphora in irreparable functional disorders of
the lower lacrimal canaliculus. Vest. oft. 73 no. 2:40-43 Mr-Ap
'60. (MIRA 14:1)

(LACRIMAL ORGANS—DISEASES)

FILLIPPOVICH, A., inzh.

Production base for a district inter-collective-farm building
organization. Sel. stroi. no.4:25-26 Ap '62. (MIRA 15:8)
(Construction industry)

FILLIPPOVICH, Yu. B. (USSR)

"Amino Acid and Protein Metabolism in the Organism of the
Oak Silkworm."

Report presented to the 5th International Biochemical Congress,
Moscow, 10-16 August 1961

FILLY, J. Favre; THOUVEREZ, J.P.

Fibrinolysis and congenital angiomas. Cor vasa 5 no.2:145-151 '63.

1. L'Institut Pasteur de Lyon et la Clinique Medicale C. Lyon.

FIL'MUS, M.

Simplify accounting in custom sewing enterprises. Sov. torg. no.9:
35 3 '56. (MLRA 9:11)

1. Glavnyy bukhgalter Odesskoy fabriki indoshiva odeszhdy No. 2
Ukrtekstil'shveytorga.
(Odessa--Clothing industry--Accounting)

FIL'NEY, M.I., dotsent, kandidat tekhnicheskikh nauk; BROMLEY, M.F., kandidat tekhnicheskikh nauk, redaktor; PERSON, M.N., tekhnicheskii redaktor.

[Heat radiators] Kalorifernye ustanovki. Moskva, Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture, 1952. 138 p. (MLRA 8:2)
(Radiators)

FIL'NEY, M.I. (Novosibirsk)

Thermotechnical characteristics of hot-air heating units. Vod.1 san.
tekh. no.11:32-34 N '58. (MIRA 11:12)
(Hot-air heating)

FIL'NEY, M.I. (Novosibirsk)

Thermotechnical characteristics of heating stacks. Vod. 1 san. tekhn.
no.11:7-11 N '59. (MIRA 13:3)
(Hot-air heating)

FIL'NEY, M.I.

Relative location of the heating unit and the ventilator. Izv. vyb. uch. zav.; stroi. i arkh. 5 no. 4:15-164 '62. (MIRA 15:9)

1. Novosibirskiy inzhenerno-stroitel'nyy institut imeni Kuybysheva.
(Heating) (Ventilation)

FIL'NEY, M.I., kand.tekhn.nauk (Novosibirsk)

Mathematical analysis of air curtains. Vod.1 san.tekh. no.2:12-
13 P '63. (MIRA 16:2)

(Air curtains)

FIL'NEY, M.I., kand. tekhn. nauk

Aerodynamic and heat properties of tributary ventilation
streams flowing out from rectangular openings. Vod. i san.
tekhn. no.10:17-18 0 '65. (MIRA 18:11)

FIL'NEY, T.M.

Methods of dividing shipbuilding operations into planning and
accounting units. Trudy NTO sud.prom. 8 no.2:15-17 '59.
(Hulls (Naval architecture)) (MIRA 13:5)

FIL'NEY, M.I.

Founder of heating and ventilation technology. Vod. i san. tekhn.
no.11:40 N '61. (MIRA 15:6)
(Aerodynamics) (Lomonosov, Mikhail Vasil'evich, 1711-1765)

FILO, Juraj, inz.

Video and audio signal distortion caused by incorrect I. F. response
of audio carrier surroundings. Slabopreduy ebzor 22 no.11:693-698
N '61.

1. TESLA Orava, n.p.

(Television)

ACCESSION NR: AP5016851

CZ/0014/64/000/008/0293/0298

AUTHOR: Filo, Juras (Engineer)

TITLE: So-called m-transformed networks and television I. F. wave traps

SOURCE: Sdelovaci technika, no. 8, 1964, 293-298

TOPIC TAGS: TV system, TV receiver

ABSTRACT: Analyzed is the method and principle of compensating the resistance of the wave-trap circuit of a band filter with a m-transformed network of practically any type. The analysis is concerned mainly with its use in the video intermediate frequency amplifier in TV receivers. Dissipation in the resonance circuits, which resonate in the transmitted band, remains, and is the limitation factor in designing such networks. Orig. art. has 24 figures, 12 formulas, and 10 graphs.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: EC

NO REF SOV: 000

OTHER: 011

JPRS

L 42471-65

ACCESSION NR: AP5016912

CZ/0014/64/000/010/0373/0376

AUTHOR: Filo, Juraj(Engineer)

TITLE: Contrast adjustment in the plate circuit of a video amplifier

SOURCE: Sdelovaci technika, no. 10, 1964, 373-376

TOPIC TAGS: video amplifier, TV receiver, potentiometer

ABSTRACT: Technical data are given on the contrast adjustment in television receivers using a potentiometer in the plate circuit of the video amplifier. The method has been in use in Czechoslovakia since 1963. Advantages of the potentiometer are given and its operation described. Orig. art. has: 10 figures, 11 formulae, 23 graphs.

ASSOCIATION: 00

LNCL: 00

SUB CODE: EC, EE

NC REF SOV: 000

OTHER: 011

JPRS

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Circ 1/1

Filo, L.

✓ Rise in production of androgenic hormones after application of chorionic hormone in hypogonadism. E. Szeder, L. Filo, and J. Kellert (Endokrinol. Istav, Labochda, Czech). Bratislav. Lekarski Listy 33, 411-21 (1963).—Review with comparison of different analytical methods.
L. J. Urbánek

FIIC, C.

"Model Sectors", P. 23, (LES, Vol. 1, No. 1, January 1954, Bratislava, Czech.)

SO: Monthly List of East European Accessions (EEAL), LC, Vol. 4, No. 3, March 1955, Uncl.

POR, F.; NEUBAUER, E.; FILO, O.

The influence of cedilanid and glutamic acid on electrolyte metabolism in cardiac failure. Rev. Czech. M. 4 no.3:217-224 1958.

1. Department of Internal Medicine, Medical Faculty, Komensky University, and the Technical University, Kosice. Director: Doc. F. Por.

(GLUTAMATES, effects

electrolyte metab. in congestive heart failure)

(DIGITALIS, effects

lanatoside C on electrolyte metab. in congestive heart failure)

(CONGESTIVE HEART FAILURE, metabolism

electrolyte metab., eff. of glutamic acid & lanatoside C)

(ELECTROLYTES, metabolism

in congestive heart failure, eff. of glutamic acid & lanatoside C)

FILO, O. ; POR, F. ; NEUBAUER, E.

"Effect of cedilanid and glutamic acid on the exchange of electrolytes in decompensated heart defects." p. 290.

ČESKOSLOVENSKÁ FYZIOLOGIE. Praha, Czechoslovakia, Vol. 7, no. 3, May 1958.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 8, August, 1959.
Uncl.

FILO, O.

"Employing more efficiently new methods of planning in forest industries." p. 178. (Polana.
Vol. 9, no. 7/8, July/Aug. 1953. Praha.)

SO: Monthly List of ~~XXXXXX~~ East European Vol. 3, No. 2, 1954
Accessions, Library of Congress, February 1954, Uncl.

FILO, Ondrej, inz.; MATHERNY, Mikulas, inz.; VALENTOVA, Mirjam, inz.

Remarks on the spectrochemistry of magnesites. Sbor VST Kosice
no. 2:21-27 '63.

1. Chair of Chemistry, Higher School of Technology, Kosice.

ASTAKHOVA, Zhanna Aleksandrovna; TSIPIIS, Yuzef Mironovich; SHVARTSMAN, Moisey Borisovich; FILOGRIYEVSKAYA, Z.D., red.; MARTSEVICH, Yu.P., red. izd-va; KOZLENKOVA, Ye.I., tekhn. red.

[Procurement of medicinal and industrial raw materials in the Ukraine] Zagotovka lekarstvenno-tekhnicheskogo syr'ia na Ukraine. Moskva, Izd-vo TSentrosoluzha, 1960. 23 p. (MIRA 14:10)
(UKRAINE—BOTANY, MEDICAL)

BOLOTINA, F.Ye.; GAMBARYAN, Kh.P.; DENISOVA, G.A.; DUBROVINA, L.I.;
KOZHINA, I.S.; KYURKCHAN, V.N.; MAKAROVA, T.I.; PAVLOVA,
U.G.; REZVETSOV, O.A.; SMIRNOVA, V.V.; SURZHIN, S.N.,
kand. tekhn. nauk; TAMAMSHYAN, S.G.; TRUSOVA, S.A.;
FILOGRIYEVSKAYA, Z.D.; CHINENOVA, E.G.; SHISHKINA, N.N.;
IL'IN, M.M., zasl. deyatel' nauki RSFSR, doktor biol. nauk
prof., red.; PRITYKINA, L.A., red.; ZARSHCHIKOVA, L.N.,
tekhn. red.

[Spice and aromatic plants of the U.S.S.R. and their use
in the food industry] Priano-aromaticheskie rasteniya SSSR
i ikh ispol'zovanie v pishchevoi promyshlennosti. Moskva,
Pishchepromizdat, 1963. 430 p. (MIRA 17:2)

FILOMAFITSKIY, S.G.

Schizophrenia originating late in life. Vop. psikh. nevr.
no.10:182-191 '64. (MIRA 18:12)

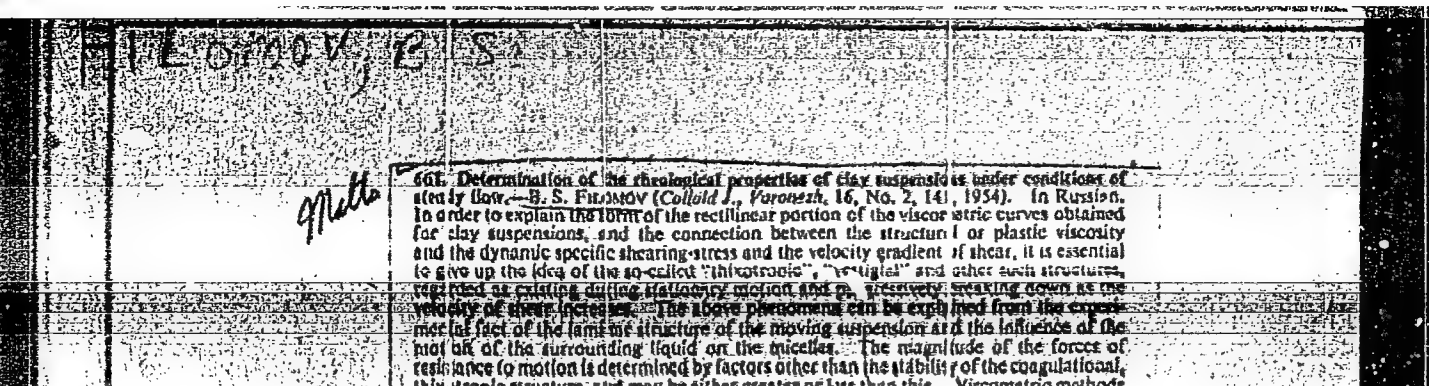
1. Kafedra psikhiiatrii (zav. - prof. D.S.Ozeretskovskiy)
1-go Leningradskogo meditsinskogo instituta imeni akademika
I.P.Pavlova.

FILOMENKO, F.I.

Extradural abscess in the anterior cranial fossa in a three-week old infant. Zhur.ush., nos.1 gor.bol.22 No.6:67 K-D'62. (MIRA 16:7)

1. Iz Otorinolaringologicheskoy 1-y Zhitomirskoy gorodskoy bol'nitzy.

(NOSE--ABSCESS)



thixotropic structure, and may be either greater or less than this. Viscometric methods based on the measurement of rheological properties in the state of motion, or under conditions of non-stationary shear, are inapplicable to the evaluation of these forces. The forces of resistance to motion in a current of clay suspension which has attained the laminar structure, whether viscous or plastic, depend on the maximum gradient of the velocity of shear to which the system has been subjected, and on the duration of this gradient. The values of τ_0 obtained with large gradients may be significantly greater, and those of η significantly less, than those obtained with small gradients. These magnitudes remain unchanged when the motion is continued with smaller shear gradients. The structure of viscometers for the measurement of the structural viscosity and the dynamic shearing stress in the technical calculation of the motion of clay and similar suspensions, and the methods of their use, should conform to the following requirements: (1) the system when first investigated should be subjected to homogeneous stress for a period long enough to stabilize it under shear gradients corresponding to those arising in the instrument; (2) by the subsequent reduction of the velocity of shear without stopping the motion, pairs of figures at the speed of shear and the corresponding force of resistance can be obtained. (3 figs., 2 tables.)

ALEKSEYEV, F.A.; YERMAKOV, V.I.; FILONOV, V.A.

Radioactive element content of surface and formation waters.
Geokhimiia no.7:642-649 '58. (MIRA 12:2)

1. Institut nefli AN SSSR, Moskva.
(Uranium) (Radium) (Oil field brines)

14.2200

26567

187500

also 1160 1482

S/126/61/012/002/019/019
E073/E535

AUTHORS: Sadovskiy, V.D., Rodigin, N.M., Smirnov, L.V.,
Filonchik, G.M. and Fakidov, I.G.

TITLE: On the influence of a magnetic field on the martensitic
transformations in steel

PERIODICAL: Fizika metallov i metallovedeniye, 1961, Vol.12, No.2,
pp.302-304

TEXT: The authors investigated the effect of a magnetic
field on martensitic transformations using specimens 3 mm dia.,
50 mm long, of steel 9X2H (9Kh2N) (0.9% C, 1.83% Cr, 0.53% Ni,
0.27% Si, 0.30% Mn, 0.01% S, 0.018% P). These specimens were
quenched from 850 and 1000°C in oil (so that they contained
respectively 11 and 37% residual austenite) and were then
subjected to a single magnetization by means of super-strong
magnetic field pulses (200-350 kOe, 3000 c.p.s.). Magnetic
measurements by a ballistic method did not show any increase in
the martensite. Experiments at liquid nitrogen temperature also
did not reveal a decrease [Abstractor's Note: Printing error for
increase] in the quantity of residual austenite as a result of
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X

On the influence of a magnetic field ... S/126/61/012/002/019/019
E073/E535

applying the magnetic field; only the usual increase in the quantity of martensite corresponding to deep cooling was observed. An increase in the number of magnetization cycles to five also had no influence on the results. Thus, it can be concluded that in the general case pulse magnetization even with very strong fields does not produce transformation of residual austenite in quenched steel. Further experiments were made with steel 50XN23 (50KhN23) (0.52% C, 1.49% Cr, 22.85% Ni, 0.3% Si, 0.19% Mn, 0.068% P). Quenching of this steel from 1200°C yields a purely austenitic structure at room temperature. Martensitic transformation begins at about -100°C and at liquid nitrogen temperature the residual austenite amounts to 40-50%. Fifty pulse magnetization cycles (40-50 kOe) during cooling showed only a very slight effect on the quantity of martensite. Further experiments were carried out on the assumption that the martensitic point is lower for fine grained austenite than for coarse grained. Therefore, another series of experiments was carried out in which steel 50KhN23 was water quenched from 1200°C and cold rolled with a reduction of 60% and then again water quenched from 850, 900, 950 and 1000°C; this

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On the influence of a magnetic field ... S/126/61/012/002/019/019
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material was used for producing magnetometric specimens. At room temperature all the specimens had a purely austenitic structure but their grain size differed. Cooling in liquid nitrogen revealed that specimens quenched from 850, 900 and 950°C contained 1 to 3% martensite but the coarser grain specimens, which were originally quenched from 1000°C, contained 20 to 30% martensite after cooling in liquid nitrogen. However, pulse magnetization at liquid nitrogen temperature produced intensive austenite to martensite transformation even in the fine grained specimens quenched from 850 to 900°C. The increase in the number of magnetization cycles did not have a great influence. It is concluded that pulse magnetization can intensify austenite to martensite transformation. In the investigated case, the austenite was artificially stabilized by its fine grain size and is in a super-metastable state at the liquid nitrogen temperature, being under-cooled considerably below its normal martensitic point. Activation of the transformation under the effect of a magnetic field is probably due to magnetostriction effects associated with the presence of a certain quantity of the magnetic phase. The problem

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On the influence of a magnetic field ... S/126/61/012/002/019/019
E073/E535

requires further study. There are 3 figures and 6 references:
4 Soviet and 1 English which reads as follows: Metal treatment
and Drop Forging, 1960, 27, No.180, 362.

ASSOCIATION: Institut fiziki metallov AN SSSR
(Institute of Physics of Metals AS USSR)

SUBMITTED: May 22, 1961

Card 4/4

TRFT'YAKOV, A.K., kand.tekhn.nauk; FILONIDOV, A.M., inzh.

Using ultrasonic methods in testing the quality of concrete.
Gidr.stroi. 30 no.2:48-50 F '60. (MIRA 13:5)
(Concrete--Testing)
(Ultrasonic waves--Industrial applications)

Deceased

S/117/63/000/001/001/001
A004/A101

AUTHORS: Ryazanov, S. V., Filonenko, A. A. (Deceased)

TITLE: Glue for mineral-ceramic tool bits

PERIODICAL: Mashinostroitel', no. 1, 1963, 35

TEXT: On the recommendation of the Metal Cutting Section of the Khar'kovskiy politekhnicheskiy institut im. V. I. Lenin (Khar'kov Polytechnic Institute im. V. I. Lenin) the Zaporozhskiy instrumental'nyy zavod im. Voykova (Zaporozhye Tool Plant im. Voykov) has developed a glue and a gluing method for joining mineral-ceramic tool bits by a high-strength glue on the base of the ЭД-5 (ED-5) and ЭД-6 (ED-6) epoxy resin. This glue is composed of epoxy resin, a solidifying agent, plasticizer and filler. Maleic anhydride is used as solidifying agent, while dibutylphthalate is used as plasticizer and zinc oxide as filler. A brief description is given of the glue production process. The tools with the bits glued on are heated to 180 - 220 °C for up to 2 hours, during which time the glue is fully polymerized. The prepared glue can be stored for 3 - 4 days without losing its efficiency. Tests showed that the joints glued with this glue are of high strength. ✓

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RYAZANOV, S.V.; FILONENKO, A.A. [deceased]

Adhesive for ceramic bits. Mashinostroitel' no.1:35 Ja '63.
(MIRA 16:2)

(Adhesives)

FILONENKO, A.I.

Treating agalactia and hypogalactia in swine. Veterinariia 41
no.6:98 Je '64. (MIRA 18:6)

1. Glavnyy veterinarnyy vrach sovkhoza "Gvardeyskiy",
Kaliningradskoy oblasti.

L 17343-63 EPR/EPF(c)/ENT(m)/BDS AEDC/AFTC P5-4/Pr-4 WM/JWD/H
ACCESSION NR: AP3007239 S/0020/63/152/001/0143/0146

AUTHOR: Merzhanov, A. G.; Filonenko, A. K.

TITLE: Thermal self-ignition of homogeneous gas mixture in a flow

SOURCE: AN SSSR. Doklady*, v. 152, no. 1, 1963, 143-146

TOPIC TAGS: rocket, combustion, solid propellant, combustion regime, thermal self-ignition, preflame zone, homogeneous gas mixture, gas combustion

ABSTRACT: An analysis of thermal self-ignition in flowing gas mixtures was made based on the classical combustion theory of Frank-Kamenetskiy and Zel'dovich. The results were applied to the combustion of solid explosives. The regime characterized by thermal self-ignition (induction controlled regime) recently has been shown to exist in rocket motors by Zaydel' and Zel'dovich (Zhurn. prikl. mekh. tekhn. fiz., no. 4, 27, 1962). The following dimensionless equation was formulated and solved by electronic computation to determine the effect of individual parameters in the self-ignition regime:

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ACCESSION NR: AP3007239

$$\frac{d^2\theta}{d\xi^2} - \frac{d\theta}{d\xi} + \delta \exp(\theta/(1+\beta\theta)) \frac{(1-\gamma\theta)^n}{1+\beta\theta} = 0;$$

boundary conditions: $\xi = 0, \theta = 0, \xi = \infty, d\theta/d\xi = 0,$

where $\theta = \frac{E}{RT_0}(T - T_0); \xi = \frac{cu_m}{\lambda} x; \delta = \frac{Q_0 \rho_0}{c^2 u_m^2} \frac{E}{RT_0^2} k_0 \exp(-E/RT_0);$

$$\beta = \frac{RT_0}{E}; \gamma = \frac{c}{Q} \frac{RT_0^2}{\lambda^2};$$

where λ is thermal conductivity, u_m is mass flow rate, T_0 is initial temperature, x is coordinate, c is specific heat, and Q is reaction heat. Results show that two combustion regimes exist separated by the critical condition $\delta = \delta_{cr}$ (see Figs. 1-3 of the Enclosure). The self-ignition regime is established at $\delta < \delta_{cr}$, characterized by a wide preflame (induction) zone, small heat fluxes in the induction zone, and a constant overall heat release rate. The reaction taking place at T_0 is controlling for this regime. The "burning" regime is established at $\delta > \delta_{cr}$, characterized by a narrow preflame zone, high heat fluxes into the fresh mixture, and

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L 17343-63

ACCESSION NR: AP3007239

3

a variable overall heat flux depending on δ . The reaction taking place at combustion temperature is controlling for this regime. In the self-ignition regime, $u_m > (u_m)_g$ ($(u_m)_g$ is the normal burning rate); consequently, the flame cannot propagate counter to the gas flow. In the burning regime, $u_m < (u_m)_g$ and the flame moves counter to the gas flow until its position is stabilized at the boundary condition $\xi = 0$. When $u_m = (u_m)_g$, the critical condition, which separates both regimes, prevails. Solution of the equation, neglecting the conductive term, yielded the following expression for the width of the preflame zone:

$$\xi_m = \frac{1 + 80\beta^2 + 0.6\gamma^{1/2}}{\delta} \dots$$

Experimental data and parameters calculated from the results were used to evaluate the combustion of solid explosives. It was shown that nitroglycerine powder burns under the self-ignition regime and hexogen, under the burning regime. "The authors thank A. Ya. Dubovnikskiy for programming and Z. B. Mayofis for carrying out the

Card 3/6

L 17343-63

ACCESSION NR: AP3007239

computation." The article was presented by N. N. Semenov. Orig.
art. has: 6 figures and 6 formulas.

ASSOCIATION: Institut khimicheskoy fiziki, Akademii nauk SSSR
(Institute of Chemical Physics, Academy of Sciences SSSR)

SUBMITTED: 11Apr63

DATE ACQ: 30Sep63

ENCL: 02

SUB CODE: PR, AS

NO REF SOV: 009

OTHER: 002

Card 4/6

S/062/63/000/003/014/018
B101/B106

AUTHORS: Merzhanov, A. G., and Filonenko, A. K.

TITLE: The part of the flame in the combustion mechanism of explosive powders

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh nauk, no. 3, 1963, 560 - 562

TEXT: The influence of the flame on the combustion rate of explosives was investigated experimentally by retarding the process in the flame either by removing the heat by means of a metal plate kept over the flame or by blowing nitrogen over it. The retardation effect, i.e. the decrease of combustion rate, was determined according to the equation $(u - u_r)/u, \%$, where u is the non-retarded combustion rate, u_r the retarded combustion rate. Results with pyroxylyene showed that between a pressure of 12 and 41 kg/cm² the retardation effect is very small, dropping from 9 to 1.5 %. With nitroglycerin the retardation effect was also only 10 % with 31 kg/cm². There is 1 table.
Card 1/2

The part of the flame in ...

S/062/63/000/003/014/018
B101/B186

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute
of Chemical Physics of the Academy of Sciences USSR)

SUBMITTED: October 18, 1962

Card 2/2

L 8804-67 EPA/EPA(a)-2/EWT(m)/EPF(c)/EPI/ENP(1)/H Pc-4/Paa-4/Pr-4/Pe-4/...
 Rt-10 ASD/AFWL/ASD/ASD(m) 3/APTC(p)/APEN/R/ALDC(c)/RAEM(1)/ESD(EI)/RPL
 WW/JW/JWN/RH

ACCESSION NR: AP4044705

3/0062/64/000/008/1509/1511

AUTHOR: Morshancov, A. G.; Filonenko, A. K.

TITLE: Theory of reaction regimes in flames in the combustion of non-volatile condensed systems

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 8, 1964, 1509-1511

TOPIC TAGS: combustion, explosive, pyroxiline, burning velocity, solid propellant

ABSTRACT: The length of the dark preflame zone (x_m) and the mass burning rate (u_m) were determined by combustion of pyroxiline samples (1 cm in diameter, 3-4 cm long) which were compressed to densities ranging from 0.8 to 1.5 g/cm³. The experiments were conducted at 20-30 atm pressure in a constant pressure bomb filled with nitrogen. Evaluation of the experimental results (see Figs. 1 and 2 of the Enclosure) showed that the experimental data can be correlated by the previously derived theoretical relationship

$$x_m = u_m F(T_m) / p Q(p),$$

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L 8804-65

ACCESSION NR: AP4044705

where $P(T_0)$ is a known temperature function at the beginning of the plateau in the flame temperature profile, $Q(p)$ is the thermal effect of the reaction in the gas phase, and p is the pressure. Orig. art. has: 2 figures and 2 formulas.

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR (Institute of Chemical Physics, AN SSSR)

SUBMITTED: 27Dec63

ATD PRESS: 3106

ENCL: 02

SUB CODE: WA, FP

NO REF/DOV: 006

OTHER: 000

Card

L 8804-65

ACCESSION NR: AF4044705

ENCLOSURE: 01

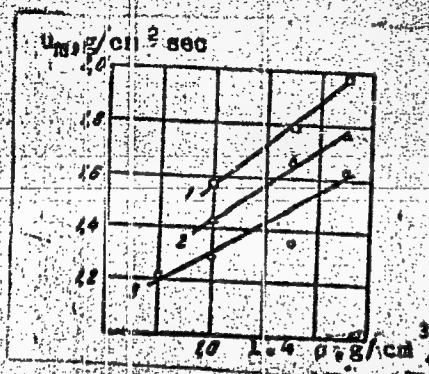


Fig 1. Dependence of the mass burning rate of pyroxiline on density at different pressures

1 - 30 atm; 2 - 26 atm; 3 - 21 atm.

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L 8804-65

ACCESSION NR: 1P4044705

ENCLOSURE: 02

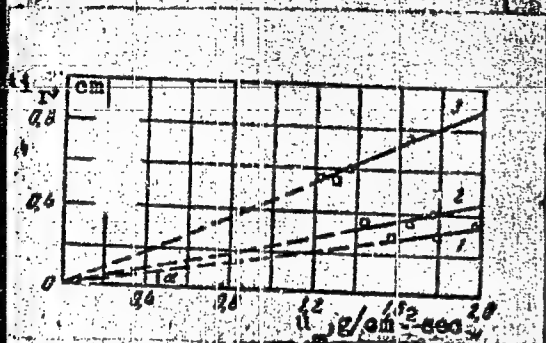


Fig 2. Dependence of the length of the dark zone on the mass burning rate, at different pressures

1 - 21 atm; 2 - 26 atm; 3 - 21 atm; \square - $p=0.8$; Δ - $p=1.1$; \circ - $p=1.3$; \circ - $p=1.5$.

Card 4/4

MERZHANOV, A.G.; FILONENKO, A.K.

Regime of reactions occurring in flame during the combustion
of nonvolatile condensed systems. Izv. AN SSSR. Ser. khim.
no.8:1509-1511 Ag '64. (MIRA 17:9)

1. Institut khimicheskoy fiziki AN SSSR.

KRYLOVA, I.V.; FILONENKO, A.P.; KOBOZEV, N.I.

Effect of irradiation on the catalytic activity of platinum
during hydrogenation. Zhur.fiz.khim. 39 no.11:2742-2744 N
'65. (MIRA 18:12)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.
Lomonosova.

ZENTSOV, A.S.; VASIL'YEV, A.F., inzhener, redaktor; FILONENKO, A.S.,
professor, redaktor; VORONIN, K.P., tekhnicheskii redaktor.

[Calculating locations of vertical shafts and underground
surveying in constructing hydraulic tunnels] Opyt proizvodstva
orientirovaniia vertikal'nykh shakht i podzemoi poligonometrii
pri sooruzhenii gidro-tekhnicheskikh tunnei. Pod red. A.V.
Vasil'eva i A.S.Filenenko. Moskva, Gos.energ. izd-vo 1955.
165 p. [Microfilm] (MLRA 9:1)
(Tunneling) (Triangulation) (Hydraulic engineering)

FILONENKO, A.S.

24
New Devices for Making Multi-Layer Cables. A. T. Buzov...
and A. S. Filonenko. (Sov. 1980, (5), 560-563). (In Russian).
Devices for multi-layer cable-making developed by the All-
Union Institute for the Organization and Mechanization of
Miner Construction are described. They ensure uniform
stretching of individual strands during manufacture and
higher cable quality. - a, k.

3

(37
MT)

1. Vsesoyuznyy nauchno-issledovatel'skiy inst.
organizatsii i mekhanizatsii stroitel'stva
VNIION SHS.
(wire rope)

ULITIN, A.I., inzh.: Prinimali uchastiye: ROZA, S.A., doktor tekhn.nauk;
FILONENKO, A.S., prof.; BELIKOV, Ye.F., dotsent. DURNEV, A.I.,
prof., doktor tekhn.nauk, red.; SOBOLEVA, Ye.M., tekhn.red.

[Instructions for observing the settling and horizontal displacements of hydraulic structures by geodetic methods] Nastavlenie po nabludeniiam za osadkami i gorizonta'l'nymi smeshcheniiami gidrotekhnicheskikh sooruzhenii geodesicheskimi metodami. Moskva, Gos.energ.isd-vo, 1958. 111 p. (MIRA 13:6)

1. Gidroenergoprojekt, trust, Moscow. 2. Konsul'tant instituta "Gidroenergoprojekt" (for Filonenko).
(Hydraulic engineering) (Surveying)

Filonenko, A.S.

KRSTOSHEVSKIY, L.S.; DANCHICH, V.V.; AVDITENKO, T.G.; ARKHANGEL'SKIY, A.F.;
GAK, A.M.; YEPFANTSEV, Yu.P.; ZELINSKIY, V.M.; IVANOV, P.S.; IVASHCHENKO,
P.R.; KALININA, M.D.; KRAVCHENKO, A.G.; KOTLYAROVA, A.V.; KRUGLYAKOVA,
M.D.; LEVIKOV, I.I.; LIBKIND, R.I.; NIKOLAYEVA, N.A.; NAUMENKO, V.F.;
PRESHMAN, I.B.; PRISYAZHNIKOV, V.S.; POBEDINSKAYA, L.P.; POKALYUKOV,
S.N.; POPOV, A.A.; SOLOMENTSEV, M.N.; TARASOV, I.V.; ~~FILOPENKO, A.S.~~
SHISHOV, Ye.L.; SHRAYMAN, L.I.; YAKUSHIN, N.P.; ZVORYKINA, L.N., red.
izd-va; LOMILINA, L.N., tekhn.red.

[Horizontal mining in foreign countries] Provedenie gorizontal'nykh
vyrobotok za rubezhom. Moskva, Ugletekhizdat, 1958. 342 p. (MIRA 12:4)

1. Kharkov. Vsesoyuznyy nauchno-issledovatel'skiy institut organizatsii
i mekhanizatsii shakhtnogo stroitel'stva.
(Mining engineering)

BELIKOV, Ye.F., dotsent; VASILENKO, S.S., inzh.; KOLOSOV, B.A., dotsent, retsenzent; VORONIN, V.A., inzh., retsenzent; FILOHENKO, A.S., prof., red.; KHROMCHENKO, F.I., red, izd-va; ROMANOVA, V.V., tekhn. red.

[Engineering surveying in planning and constructing hydroelectric power stations] Inzhenerno-geodesicheskie raboty pri proektirovani i stroitel'stve gidroelektrostantsii. Pod red. A.S. Filonenko. Moskva, Izd-vo geodex. lit-ry, 1960. 172 p. (MIRA 13:7)
(Surveying) (Hydroelectric power stations)

Aleksei Stepanovich Filonenko, 1884-1963; obituary. Geod. i kart. no.3:
70-71 Mr '64. (MIRA 17:9)

FILONENKO, Aleksey Stepanovich, prof. [deceased]; SHCHIPITSYN,
Nikolay Grigor'yevich, dots.; LITVINOV, B.A., prof., red.;

[Laboratory work in surveying; study of precision survey-
ing instruments] Praktikum po vyssheĭ geodezii; issledova-
nie vysokotochnykh geodezicheskikh instrumentov. Moskva,
Nedra, 1965. 199 p. (MIRA 18:8)

L 06142-67 EWT(1) GW

ACC NR: AR6019787

SOURCE CODE: UR/0270/66/000/002/0008/0008

AUTHOR: Filonenko, A.S.; Shchepitsyn, N.G.

TITLE: Manual for higher geodesy investigation of high precision geodetic instruments.
Text for geodetic VUZ's and FAC's

SOURCE: Ref. zh. Geod, Abs. 2.52.58K

REF SOURCE: Praktikum po vysshey geodezii. Issledovaniye vysokotochnykh geodezicheskikh instrumentov. Uchebn. posobiye dlya geodezich. vuzov i fak. M., Nedra, 1965, 200 str.

TOPIC TAGS: geodetic instrument, geodetic instrument manual, theodolite, optical theodolite, level instrument/NA level instrument, NB level instrument

ABSTRACT: A text for students of geodetic VUZ's on the investigation of geodetic instruments. Contains description of design, checking, and methods of instrument investigation used in precise measurements. Text is divided into six chapters: 1. Geodetic theodolites with screw micrometers and their check-out; 2. Laboratory investigations of theodolites with screw micrometers; 3. Optical theodolites; 4. Investigation of optical theodolites; 5. Description and checkout of high precision levels NA and NB, with plane parallel plate; 6. Laboratory and field investigations of high precision levels NA and NB. [Translation of abstract].

SUB CODE: 08

Card 1/1 m 76

UDC: 528.5(076.5)

Filonenko, B. F.

1 The Production of ~~ferromanganese~~ using Chisturak Carbonate Manganese (In: A. Yu. Arsenkhvili, S. G. Boiko, M. A. Kekelidze, V. V. Perova, B. F. Filonenko and A. N. Tseritsya. (Izvest. Akad. Nauk SSSR, O.T.N., 1955, 11, 6-12). [In Russian] A short description of Chisturak carbonate manganese ore is given. Experimental production of ferromanganese from burdens containing them is described. The results obtained indicated that the ore has a beneficial influence on furnace operation and can be used successfully for the production of ferromanganese—v. a.

Metal 6

of

FILONENKO, F.I.

Gigantic polyp of the palatal tonsils. Vest.oto-rin. 18 no.3:67
My-Je '56. (MLRA 9:8)

1. Iz Harodichskoy rayonnoy bol'nitsy Zhitomirskoy oblasti.
(TONSILS--TUMORS)

FILONENKO, P.I.

Cases of acute otitis with a complication of liquorrhea. Vrach.
delo no.10:1085 0 '58 (MIRA 11:11)

1. Kafedra bolezney ukha, gorla i nosa (zav. - zasl. deyatel'
nauki, prof. A.I. Kolomiychenko) Kiyevskogo instituta usovershenstvovaniya
vrachey.

(EAR--DISEASES)

PILOMENKO, F.I., klinicheskiy ordinator.

Tonsillogenic mediastinitis and esophagotracheal fistula. Vest. otorin.
21 no.2:99-100 Mr-Apr '59. (MIRA 12:4)

1. Iz kafedry bolezney ucha, gorla i nosa (zav. - zasluzhennyy deyatel'-
nauki USSR prof. A.I. Kolomiychenko) Kiyevskogo instituta usovershenst-
vovaniya vrachey.

(TONSILLITIC, compl.

mediastinitis & esophagotracheal fistula (Rus))

(MEDIASINITIS--etiol. & pathogen.

tonsillitis, with esophagotracheal fistula (Rus))

(ESOPHAGUS, fistula,

esophagotracheal, in mediastinitis caused by tonsillitis
(Rus))

(TRACHEA, fistula,

same)

FILONENKO, F.I.

Tonsillectomy. Zhur. ush., i gorl. bol. 22 no.1:79 Ja-F '62.

(MIRA 15:5)

1. Iz Otorinolaringologicheskogo otdeleniya 1-y gorodskoy bol'nitsy
goroda Zhitomira.

(TONSILS--SURGERY)

FILONENKO, G. G.

"On the Motion of a Wheel Rolling Along an Elastic Rail."
Cand Phys-Math Sci, Kiev State U, Kiev, 1954. (RZhVekh, Mar 55)

SO; Sum. No. 670, 29 Sep 55--Survey of Scientific and Technical
Dissertations Defended at USSR Higher Educational Institutions (15)

FILONENKO, G.G. [Filonenko, H.H.]

Motion of a wheel under a spring-suspended weight and subject to periodic impulses. Visnyk Kyiv. un. Ser. astron., mat. ta mekh. no. 1:9-17 '58. (MIRA 14:5)

(Mechanical movements)

FILONENKO, G.G.[Filonenko, H.H.] (Kiev)

Motion of a wheel rolling on an elastic rail [with summary in
English]. Prikl. mekh. 4 no. 2:182-191 '58. (MIRA 11:8)

1. Kiivs'kiy derzhavniy universitet.
(Motion)
(Wheels)

RYAZANOVA, M.Ya.; FILONENKO, G.G. [Filonenko, H.H.]

Vibrations of a beam resting on an elastic basis under the action of system of moving loads making allowance for the inert properties of the basis. Dop. AN URSR no.4:437-440 '65. (MIRA 18:5)

1. Kiyevskiy gosudarstvennyy universitet.

RYAZANOVA, M.Ya. (Kiyev); FILONENKO, G.G. (Kiyev)

Vibrations of an infinite elastically supported beam subjected
to movable loading taking into consideration energy dissipation.
Prikl. mekh. 1 no.8:128-130 '65. (MIRA 18:9)

1. Kiyevskiy gosudarstvennyy universitet.

1. FILONENKO, G. K.
2. USSR (600)
4. Technology
7. Drying installations. Moskva, Gosenergoizdat, 1952

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

FILONENKO, G.K.; KRYUCHKOV, I.V.

Using a psychrometer in the vegetable drying industry.
Kens. i ov. prem. 13 no.12:6-9 D '58.

(MIRA 11:12)

1.Odesskiy tekhnologicheskii institut pshchevoy i kholdil'noy
promyshlennosti.

(Vegetables; Dried) (Hygrometry)

~~PILOMENKO, O. I.~~

Hydraulic resistance of rough pipe walls. Inzh.fiz.zhur. no.1:17-23
Ja '58. (MIRA 11:7)

1. Tekhnologicheskii institut kholodil'noy promyshlennosti, g.Odessa.
(Pipe--Hydrodynamics)

FILONENKO, G.K., prof., doktor tekhn.nauk

Hydraulic resistance of rough-surface pipes. Nauch.trudy MIFI
no.9:220-232 ' 58. (MIRA 11:12)
(Pipe) (Fluid mechanics)

KOROTKIY, G.P., inzh.; FILONENKO, I.S., inzh.

Automation of a seven-roll straightener. Mekh.i avtom.proizv.
16 no.9:11-13 S '62. (MIRA 15:9)
(Pipe mills) (Automation)

BUTTS, Sharlotta Filippovna; SAMARINA, Vera Sergeyevna; ~~FILONENKO, K.D.~~,
redaktor; IVANOVA, A.V., tekhnicheskiy redaktor

[Manual of practical work in hydrogeology] Posobie k prakticheskim
zaniatiyam po gidrogeologii [Leningrad] Izd-vo Leningradskogo univ.
1956. 171 p. (MLRA 9:7)
(Water, Underground)

KATAYEV, Oleg Aleksandrovich; ZHURAVLEV, I.I., prof., retsenzent;
SELISHCHENSKAYA, A.A., retsenzent; DEMENT'YEV, V.I., dots.,
otv. red.; FILONENKO, K.D., red.; URITSKAYA, A.D., tekhn.
red.

[Principles of zoology] Osnovy zoologii; uchebnoe posobie dlia
studentov lesokhoziaistvennogo fakul'teta. Leningrad, Vses.
zaachnyi lesotekhn. in-t, 1962. 48 p. (MIRA 16:7)

1. Assistent kafedry entomologii Lesotekhnicheskoy akademii
im. S.M.Kirova (for Selishchenskaya).
(Zoology)

ZAMORUYEV. Boris Mikhaylovich; FLYATE, D.M., dots., kand. tekhn.
nauk retsenzent; MORGENHUTERN. V.S., dots., kand. tekhn. nauk
retsenzent: FILONENKO, K.D., red.

[Water purification structures in woodpulp production; a
textbook on a diploma Project for students of the Faculty of
Chemistry and Technology] Vodochistnye sooruzheniia tselliulozno-
bumazhnogo proizvodstva; posobie po diplomnomu proektirovaniu
dlia studentov khimiko-tekhnologicheskogo fakul'teta. Leningrad,
Vses. zaachnyi lesotekhn. in-t, 1962. 83 p. (MIRA 18;3)

NEKHAMKIN, Natan Osipovich, dots., kand. tekhn. nauk; VLASOV, G.D.,
prof., doktor tekhn. nauk, retsenzent; KORSHUNOV, A.N.,
kand. tekhn. nauk, retsenzent; PESOTSKIY, A.N., prof., doktor
tekhn. nauk, otv. red.; FILONENKO, K.D., red.

[Planning wood processing enterprises; introductory lecture
for students of the Faculty of Mechanical Wood Processing
specializing in the technology of wood processing enterprises]
Proektirovaniye derevoobrabatyvaiushchikh predpriyatii; vstupi-
tel'naya leksiya dlya studentov fakul'teta mekhanicheskoi
tekhnologii drevesiny po spetsializatsii - tekhnologiya derevo-
obrabatyvaiushchikh predpriyatii. Leningrad, Vses. zaachnyi
lesotekhn. in-t, 1963. 23 p. (MIRA 17:5)

ALYSHEV, Ivan Fedorovich; SOF'INA, Antonina Aleksandrovna;
ANDROSOV, D.L., inzh., retsenzent; KOLBAS, N.S., inzh.,
retsenzent; YABLOCHKIN, A.A., inzh., otv. red.;
FILONENKO, K.D., red.; URITSKAYA, A.D., tekhn. red.

[Testing the road properties of soils] Ispytanie dorozh-
nykh svoistv gruntov; posobie k laboratornym rabotam (dlia
studentov lesoinzhenernogo fakul'teta). Leningrad, Vses.
zaochnyi lesotekhnicheskii in-t, 1963. 56 p.

(MIRA 16:10)

(Soil mechanics)

MIKHAYLOV, Aleksey Nikolayevich, dots., kand. tekhn. nauk;
SHVARTSMAN, G.M., st. nauchn. sotr., kand. tekhn. nauk,
retsenzent; NEKHAMKIN, N.O., kand. tekhn. nauk, dots.,
retsenzent; VASECHKIN, Yu.V., dots., kand. tekhn. nauk,
otv. red.; FILONENKO, K.D., red.

[Role of pressure in the technological process of the production of gluing materials; lecture in the course "Technology of the production of gluing materials and boards" for students of the Faculty of the Mechanical Technology of Wood] Rol' davleniia v tekhnologicheskoi protsesse izgotovleniia kleenykh materialov; lektsiia po kursu "Tekhnologiya proizvodstva kleenykh materialov i plit" dlia studentov fakul'teta mekhanicheskoi tekhnologii drevesiny. Leningrad, Vses. zaachnyi lesotekhn. in-t, 1964. 34 p. (MIRA 18:3)

MELENT'YEV, V.A., starshiy nauchnyy sotrudnik, kand.tekhn.nauk;
FILOMENKO, K.I., inzh.

Thermal investigation of situ of hydraulic mechanisation of
earthwork in winter. Izv. VNIIG 60:68-88 '58.

(MIRA 13:6)

(Hydraulic engineering--Low temperature conditions)

SLIPCHENKO, P.S., glav. red.; KUCHERENKO, K.R., red.; FILONENKO, K.I., red.; LESNAYA, A.A., red.; ABYZOV, A.G., red.; BUDNIKOV, M.S., red.; VETROV, Yu.A., red.; GLADKIY, V.I., red.; GOLOSOV, V.A., red.; IZMAYLOV, V.G., red.; KANYUKA, N.S., red.; KAIPOV, E.A., red.; KLINDUKH, A.M., red.; KUSHNAREV, N.Ye., red.; LUYK, A.I., kand. tekhn. nauk, red.; NEMENKO, L.A., red.; RYBAL'SKIY, V.I., red.; SITNIK, I.P., red.; FEDOSENKO, N.M., red.; FILAKHTOV, A.L., kand. tekhn. nauk, red.; KHILOBOCHENKO, K.S., red.; VORONKOVA, L.V., red.; KIYANICHENKO, N.S., red.

[Construction industry: technology and mechanization of the construction industry; the economics and organization of construction] Stroitel'noe proizvodstvo: tekhnologiya i mekhanizatsiya stroitel'nogo proizvodstva; ekonomika i organizatsiya stroitel'stva. Kiev, Budivel'nyk, 1965. 180 p. (MIRA 18:4)

1. Nauchno-issledovatel'skiy institut stroitel'nogo proizvodstva. 2. Nauchno-issledovatel'skiy institut stroitel'nogo proizvodstva (for Luyk, Filakhtov).

124-1957-1-377

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 1, p 47 (USSR)

AUTHOR: Filonenko, L. A.

TITLE: New Method for the Calculation of the Non-stationary Motion of a Gas in the Ducts of a High-Speed Internal-Combustion Engine
(Novyy metod rascheta neustanovivshegosya dvizheniya gaza v truboprovodakh bystrokhodnogo dvigatelya vnutrennego sgoraniya)

PERIODICAL: Tr. Khar'kovsk. aviats. in-ta, 1955, Nr 16, pp 141-151

ABSTRACT: Utilizing the equations of the non-stationary motion of gases in terms of finite differences, the Author has developed a graphic-analytical method for the calculation of the motion of gases in the exhaust manifold of a two-stroke engine. The calculation was carried out with the following assumptions: 1) The motion of the gases in the conduit is uniform and adiabatic; the viscosity is disregarded. 2) The speed of propagation of a perturbation is constant and equals the speed which corresponds to the mean temperature of the exhaust gas over the entire cycle. 3) The gas temperature in the manifold inlet section, referred to the inlet pressure, is constant; this is equivalent to the

Card 1/2

124-1957-1-377

New Method for the Calculation of the Non-stationary Motion of a Gas (cont.)

assumption of a sudden temperature jump at the time when the gas jet fills the inlet section of the manifold. The calculation method permits the evaluation of the optimal dimensions of the intake and exhaust ducts of an internal-combustion engine.

I. S. Simonov

1. Engines 2. Gases--Motion--Analysis

Card 2/2

FILONENKO, N.G., inzh.

Automatic regulator of mass concentration in blow tanks. ^{Bum.}
prom. 33 no.11:24 N '58. (MIRA 13:8)

1.Leningradskiy tekhnologicheskii institut.
(Woodpulp)

FILONENKO, N.G., inzh.

Use of blocks of the MAUS pneumatic system in the
automatic control of production. 'Bum.prom. 35 no.7:
11-12 Je '60. (MIRA 13:8)

1. Leningradskiy tekhnologicheskiy institut tsellyulozno-
bumashnoy promyshlennosti.
(Woodpulp industry--Equipment and supplies)
(Automatic control)